

MAGNETIC STORAGE MEDIA HAVING TILTED MAGNETIC
ANISOTROPY

ABSTRACT OF THE DISCLOSURE

5 A magnetic storage media comprises a substrate supporting the
layer of magnetic media having a tilted C-axis greater than approximately 25°
with respect to surface normal and having a magnetic easy axis tilted at an angle
at approximately greater than 30° from the substrate surface normal. The media
includes an oblique deposited seedlayer structure directing tilted C-axis growth
10 of the magnetic material layer independent of the angle of deposition of the
magnetic material layer. The orientation C-axis and the magnetic easy axis of
the media may be organized into circumferential or radial patterns on the
substrate surface, and additionally may possess azimuthal symmetry.